

RIBTW2401B-BC

OPEN PROTOCOL RELAY

BACnet® MS/TP Network Enclosed Relay Device; One Discrete Output (20 Amp Relay SPDT); One Discrete Input; 24 Vac/dc or 120 Vac Power



Contact Ratings:
20 Amp Resistive @ 277 Vac
20 Amp Ballast N/O @ 120/277 Vac
10 Amp Ballast N/C @ 277 Vac
10 Amp Tungsten N/O @ 120 Vac
1110 VA Pilot Duty @ 277 Vac
770 VA Pilot Duty @ 120 Vac
2 HP @ 277 Vac
1 HP @ 120 Vac

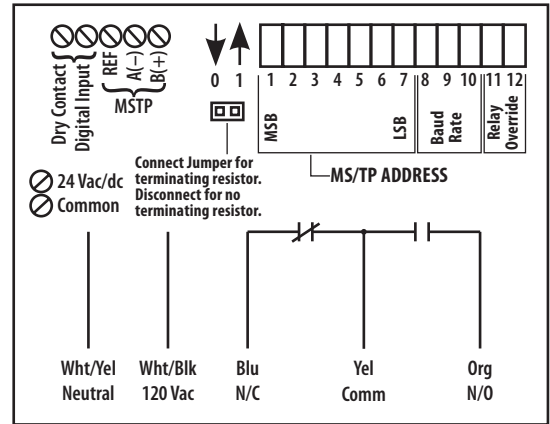
Power Input Ratings:
81 mA @ 24 Vdc
111 mA @ 24 Vac
96 mA @ 120 Vac

Power Input:
24 Vac/dc ; 120 Vac ; 50-60 Hz

Notes:
» MS/TP Address & Baud Rate must be set prior to power up via DIP switches.
» Device ID will default to 277XXX where XXX is the MS/TP Address.
Examples:

MS/TP Address - 004
Device ID - 277004
MS/TP Address - 121
Device ID - 277121

» Device ID can be changed via network command. Once changed, it will no longer default to 277XXX. (MS/TP Address & Device ID must be unique.)
» PIC Statement Available for Download
» Objects included in device are:
BO 1 (Binary output)
BI 1 (Binary input)
BI 2 (Binary input)
AI 1 (Analog input)
» This model utilizes only:
BO 1
BI 1
» Device Instance changed via Object Identifier Property of Device Object



DIP Switches			Baud Rate	DIP Switches		Relay State*
8	9	10		11	12	
0	0	0	9600	1	0	Auto
0	0	1	19200	X	1	Override on
0	1	0	38400	0	0	Override off
0	1	1	57600			
1	0	0	76800			
1	0	1	115200			

All other combinations=9600 baud

» Dry contact digital input is a general purpose input that is not tied to the relay internally. Can be used with any dry contact switching device, such as a current sensor, to feed back to the network.

SPECIFICATIONS

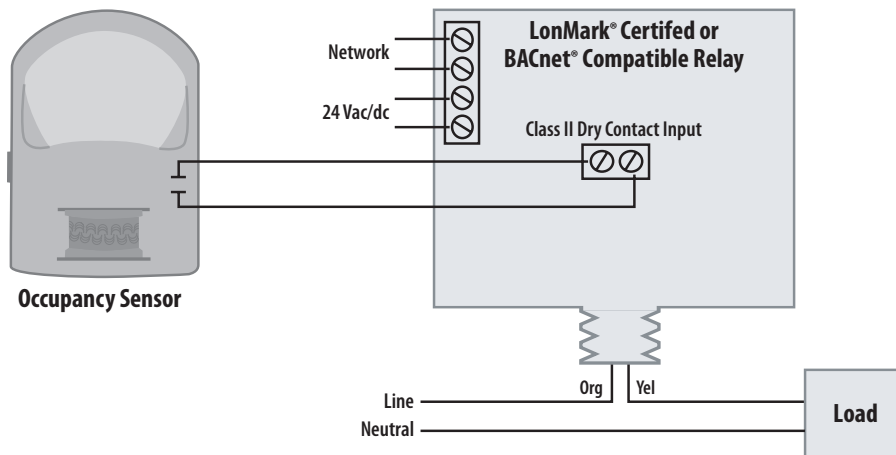
- # Relays & Contact Type: One (1) SPDT Continuous Duty Coil
- Expected Relay Life: 10 million cycles minimum mechanical
- Operating Temperature: -30 to 140° F
- Operate Time: 18mS
- Green LED: Network Communication
- Red LED: Relay Status
- Dimensions: 4.00" x 4.00" x 1.80" with .50" NPT Nipple
- Wires: 16", 600V Rated
- Approvals: CE, UL Listed, UL916, C-UL, RoHS
- Housing Rating: Plenum, NEMA 1
- Gold Flash: No
- Relay Override Switch: Coil Side (DIP Switches 11 & 12)

- Network Media: Twisted Pair 22-24AWG, shielded recommended
- Terminations: Functional Devices product installed at both ends of the MS/TP network – Use 120 Ohm end of line resistors. All other cases – Follow instructions from the device installed at the end of the MS/TP network.
- Polarity: Network is polarity sensitive
- Band Rate: 9600, 19200, 38400, 57600, 76800, 115200 (Dip Switch Selectable)

Notes

Occupancy Sensor on Open Protocol Network

A LonMark® certified or a BACnet® compatible relay with a digital input can be used with an occupancy sensor in a room and turn on and off loads based on that status. This saves the cost of buying a LonMark® compatible or BACnet® compatible occupancy sensor by utilizing the digital input on our device.



LonMark® Certified Relays

- RIBTW2401B-LN
- RIBTW2402B-LN
- RIBTW2401SB-LN
- RIBTW2402SB-LN

BACnet® Compatible Relays

- RIBTW2401B-BC